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Proprietor's Docket No. MPI00-344P1RRCE2M

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent Number:	7,166,428 B2
Date of Issue:	January 23, 2007
Name of Patentee:	Rachel E. Meyers, et al.
Title of Invention:	62112, A NOVEL HUMAN DEHYDROGENASE AND USES THEREOF

**Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**TRANSMITTAL**

1. Transmitted herewith for this application is/are:
  - a. This Transmittal (2 pages);
  - b. Request for Certificate of Correction of Patent for PTO Mistake ( 2 pages);
  - c. Certificate of Correction (1 page - in duplicate);
  - d. Copy of Notice of Recordation, Recordation Form Cover Sheet, and executed Assignments (6 pages); and
  - e. Return Postcard.

**STATUS**

2. Applicant is other than a small entity.

**Certificate**

**FEB 26 2007**

**of Correction**

**CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\***

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

- ☒ deposited with the United States Postal Service in an envelope addressed to Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
**37 C.F.R. SECTION 1.8(a)**

**37 C.F.R. SECTION 1.10\***

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee" Mailing Label No.

**TRANSMISSION**

- ☐ transmitted by facsimile to the Patent and Trademark Office.

**Signature**

*Beverly Sotiropoulos*  
Sean Hurziker/Beverly Sotiropoulos  
(type or print name of person certifying)

Date: February 16, 2007

**\*WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

Practitioner's Docket No. MPI00-344P1RRCE2M

**FEE DEFICIENCY**

3. If any additional extension and/or fee is required, charge Account No. 501668.  
If any additional fee for claims is required, charge Account No. 501668.

4. Correspondence Address

Direct all future correspondence to:

Customer Number 30405

OR

Intellectual Property Department  
MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street

Cambridge, MA 02139

February 16, 2007

MILLENNIUM PHARMACEUTICALS, INC.

By 

Jonathan K. Hamm, Ph.D.

Registration No. 59,608

40 Landsdowne Street

Cambridge, MA 02139

Telephone – (617) 679-7166

Facsimile – (617) 551-8820



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P.O. Box 1450  
Alexandria, VA 22313-1450**

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT  
FOR PTO MISTAKE (37 C.F.R. SECTION 1.322(a))**

1. On July 28, 2006, Applicants filed an amendment with request for continued examination amending subpart (iv) of claim 1 to include the phrase "in vitro". However, such change is not reflected in the issued patent.
2. Attached hereto, in duplicate, is PTO/SB/44 (also Form PTO—1050), with at least one copy being suitable for printing.
3. The exact page where the error appears is:

Column 91, Claim 1, Line 31

---

**CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\***

I hereby certify that, on the date shown below, this correspondence is being:

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- ☒ deposited with the United States Postal Service in an envelope addressed to Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**37 C.F.R. SECTION 1.8(a)**

**37 C.F.R. SECTION 1.10\***

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee" Mailing Label No.

**TRANSMISSION**

- ☐ transmitted by facsimile to the Patent and Trademark Office.

*Beverly Sotiropoulos*  
Signature

Sean Hunziker/Beverly Sotiropoulos

(type or print name of person certifying)

Date: February 16, 2007

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Practitioner's Docket No. MPI00-344P1RRCE2M

4. Please send the Certificate to:

Name: Customer No.: 30405  
Millennium Pharmaceuticals, Inc.  
Attn: Docketing Department  
40 Landsdowne Street  
Cambridge, MA 02139

5. Assignee: Millennium Pharmaceuticals, Inc., Cambridge, Massachusetts

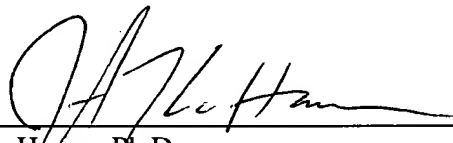
☒ Assignment recorded on

January 29, 2002 Reel 012557, Frame 0362  
Copy of Assignment of the invention from Rachel E. Meyers, and  
John J. Hunter to Millennium Pharmaceuticals, Inc.

☒ Recordal of assignment attached

February 16, 2007

MILLENNIUM PHARMACEUTICALS, INC.

By   
Jonathan K. Hamm, Ph.D.  
Registration No. 59,608  
40 Landsdowne Street  
Cambridge, MA 02139  
Telephone – (617) 679-7166  
Facsimile – (617) 551-8820

## UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO : 7,166,428 B2

DATED : January 23, 2007

INVENTOR(S) : Rachel E. Meyers, et al.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

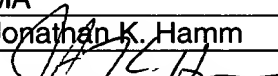
IN THE CLAIMS:

In Claim 1, column 91, line 31, immediately following "cellular growth or proliferation of the cancer cells," the following phrase "in vitro" should be inserted.

PATENT NO. 7,166,428 B2

MAILING ADDRESS OF SENDER:

No. of additional copies 1

Name: Customer Number 30405 Intellectual Property Department MILLENNIUM PHARMACEUTICALS, INC.			
Address	40 Landsdowne Street	Zip Code	02139
City	Cambridge	Fax	617-551-8820
State	MA	Telephone	617-679-7166
Name (Print/Type)	Jonathan K. Hamm	Registration No. (Attorney/Agent)	Reg. No. 59,608
Signature		Date February 16, 2007	

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO : 7,166,428 B2

DATED : January 23, 2007

INVENTOR(S) : Rachel E. Meyers, et al.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

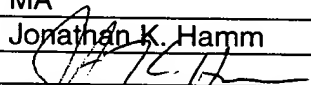
### IN THE CLAIMS:

In Claim 1, column 91, line 31, immediately following "cellular growth or proliferation of the cancer cells," the following phrase "in vitro" should be inserted.

PATENT NO. 7,166,428 B2

MAILING ADDRESS OF SENDER:

No. of additional copies 1

Name: Customer Number 30405 Intellectual Property Department MILLENNIUM PHARMACEUTICALS, INC.			
Address	40 Landsdowne Street	Zip Code	02139
City	Cambridge	Fax	617-551-8820
State	MA	Telephone	617-679-7166
Name (Print/Type)	Jonathan K. Hamm	Registration No. (Attorney/Agent)	Reg. No. 59,608
Signature		Date February 16, 2007	

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

# COPY



REC'D M7 - 6 2002

APRIL 08, 2002

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov

LAHIVE & COCKFIELD, LLP  
AMY E. MANDRAGOURAS, ESQ.  
28 STATE STREET  
BOSTON, MA 02109



\*101980875A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/29/2002

REEL/FRAME: 012557/0362

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MEYERS, RACHEL

DOC DATE: 10/26/2001

ASSIGNOR:

HUNTER, JOHN JOSEPH

DOC DATE: 10/24/2001

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.  
75 SIDNEY STREET  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09945326

FILING DATE: 08/31/2001

PATENT NUMBER:

ISSUE DATE:

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



Tab settings ⇄⇄⇄▽ MNI-187

101980875



To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1.) Rachel Meyers  
2.) John Joseph Hunter

1-29-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 1. 10/26/01 2.) 10/24/01

2. Name and address of receiving party(ies)

Name: Millennium Pharmaceuticals, Inc.

Internal Address: \_\_\_\_\_

Street Address: 75 Sidney Street

City: Cambridge State: MA ZIP: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
09/945,326

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Amy E. Mandragouras, Esq.

Internal Address: Lahive & Cockfield, LLP

Street Address: 28 State Street

City: Boston State: MA ZIP: 02109

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ \$40.00

☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

12-0080

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Maria C. Laccotripe

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document:

5

Mail documents to be recorded with required cover sheet information to:  
Box Assignment, Director - U.S. Patent and Trademark Office  
Washington, D.C. 20231

02/12/2002 TD1A21 00000173 09945326

01 FC1581

40.00 OP



## CONCLUSIONS

a corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, MA 02139, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

**Millennium Pharmaceuticals, Inc.**

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

## 62112, A NOVEL HUMAN DEHYDROGENASE AND USES THEREOF

described in an application

- ☐ executed by us of even date herewith and about to be filed  
☒ Serial No. 09/945,326, filed on August 31, 2001

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 26 day of Oct, 2001.

By: X Rachel Meyers  
**Rachel Meyers**

State of Massachusetts )  
 ) ss  
County of *Middlesex* )

Then personally appeared the above named Rachel Meyers and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 26<sup>th</sup> day of October, 2001.

Ann Sherry  
Notary Public (ANN SHERRY)

Mv commission expires: 4/19/07

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

By: \_\_\_\_\_  
**John Joseph Hunter**

State of Massachusetts     )  
  ) ss  
County of                     )

Then personally appeared the above named John Joseph Hunter and acknowledged the foregoing instrument to be his/her free act and deed, before me, this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

We, Rachel Meyers of Newton, MA and John Joseph Hunter of Somerville, MA, in consideration of One Dollar and other valuable consideration paid to us by

**Millennium Pharmaceuticals, Inc.**

a corporation of Delaware, having its principal place of business at 75 Sidney Street, Cambridge, MA 02139, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

**Millennium Pharmaceuticals, Inc.**

its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

**62112, A NOVEL HUMAN DEHYDROGENASE AND USES THEREOF**

described in an application

- ☐ executed by us of even date herewith and about to be filed  
☒ Serial No. 09/945,326, filed on August 31, 2001

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

By: \_\_\_\_\_  
**Rachel Meyers**

State of Massachusetts       )  
  ) ss  
County of                        )

Then personally appeared the above named Rachel Meyers and acknowledged the foregoing instrument to be his/her free act and deed, before me, this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

\_\_\_\_\_  
Notary Public

My commission expires:

WITNESS my hand and seal this 24<sup>th</sup> day of October, 2001.

By: X John J Hunter  
John Joseph Hunter

State of Massachusetts )  
County of Middlesex ) ss

Then personally appeared the above named John Joseph Hunter and acknowledged the foregoing instrument to be his/her free act and deed, before me, this 24<sup>th</sup> day of October, 2001.

Ann Sherry  
Notary Public (ANN SHERRY)

My commission expires: 4/19/07